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MyDate=Wed Oct 09 22:16:06 GMT-0400 (Eastern Daylight Time) 2002

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Artunit=1639 (used to be 1627)

Office=CMI - 3D14

Serialnum=09/122,576

PatClass=436/85; 435/4

Earliest= 7/24/98

Format1=paper

Searchtopic=I need an STN structure search on the following:

1) A compound of the formula,

R4-NH-(C=X)-Y-Z-SS wherein:

R4 is -NH-R3, -NH2, -OH, or -O-R3, wherein R3 is a protecting group, provided that when R4 is -NH-R3 or O-R3, then the protecting group is removed and replaced by -H in the final product (I);

X is O, S, or NR7

POINT OF CONTACT:
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R7 is H, alkyl, alkenyl, aryl, aralkyl, cycloalkyl, or herocycle;

Y is absent, -NH-, or -CH2-;

Z is absent or is a substituent selected from the group consisting of -NH-, -O-, -(C=O)-, -S-, SO2-, alkyl, alenyl, aryl, aralkyl, cycoalkyl, heterocycle, and combinations thereof, provided that when Y is absent and X is O or S, Z does not comprise -(C=O)- immediately adjacent to -C=X)-, and when Y is -NH- and Z comprises an -NH- or an -S-, at least one carbon atom separates Y and the -NH- or -S- of Z, wherein, under conditions for peptide synthesis, functional groups of Z are protected;

SS is a solid support

2) wherein the compound from claim 1 above is prepared via an amine being coupled to an acid or an acid chloride or any other carbonyl group with a leaving group, for example, R-NH2 + X-(C=O)-R > R-NH-(C=O)-R i.e., so the primary amine and the acid, acid chloride, acid ester, etc are the reactants and the amide is the products.

The actual claim reads like this:

wherein said derivatized resin represented by forumula (I) above is prepared by a process comprising the steps of:

(i) reacting a starting material represented by formul (C)

(C) R1-(C=X)-Y-Z-SS, wherein R1 is a leaving group; with a reactant of formula (D)

(D) R4-NH2 to form the product (I) of formula R4-NH-(C=X)-Y-Z-SS

3)The method above in step 2) wherin Y is absent or is -CH2-, X is oxygen and R1 is hydroxyl, such that said method produces a derivatized resin represented by formula (IB):

(IB) R4-NH-(C=O)-Y-Z-SS

4)The method above in step 3) which further comprises thionating the derivatized resin (IB) to produce a product represented by formula (IC)

(IC) R4-NH-(C=S)-Y-Z-SS.

5) The method above in step 4) which further comprsies alkylating the derivatized resin (IC) with an alkylating agent capable of contributing an alkyl group R11 to form an intermediate represented by the formula (H):

(H) R4-N=(C-S-R11)-Y-Z-SS, and reacting the intermediate (H) with NH2-R7 to form a product represented by the formula (ID)

(ID) R4-NH-(C=NR7)-Y-Z-SS;

Comments=Thanks for your help!

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